Nicktoons RACING BIOS settings

The following sections were cut from our Programmers Manual…

1.1.1. ASRock M810LMR Motherboard and AMIBIOS settings

To get into the BIOS on the ASRock M810LMR Motherboard, press F2 during the power on self test. (turn on the game, wait about 1 second, then tap F2 once a second until the BIOS screen is visible on the monitor).
The menus are selected by the left & right arrow keys, to select item in any menu use the up & down keys. The bottom 2 lines on the BIOS screen describe the operation of the other keys.
Sometimes it is easier to use the “Load default settings”, then change the BIOS settings (See X) .

To get into this BIOS, use the “**F2**” key.
The Column X indicates a change from “Load default settings”
Here are the recommended BIOS settings

Table 1, AMI BIOS for ASRock M810LMR Mother board

AMIBIOS, VERSION 3.31a	**Value**	**X**
Main (menu)		
System Date	**(Current Date)**	
System Time	**(Current time)**	
Floppy Drives		
Floppy Drive A	**Not Installed**	**X**
Floppy Drive B	**Not Installed**	
Floppy Drive Swap	**Disabled**	
Floppy Drive Seek	**Disabled**	
IDE Drives		
Primary IDE Master	**(C: hard drive)**	
Type	**Auto**	
32 Bit Transfer Mode	**Off**	**X**
Ultra DMA mode	**Disabled**	**X**
Primary IDE Slave	**(Not installed)**	
Type	**Auto**	
32 Bit Transfer Mode	**Off**	**X**
Ultra DMA mode	**Disabled**	**X**
Secondary IDE Master	**(the CD Drive)**	
Type	**Auto**	
32 Bit Transfer Mode	**Off**	**X**
Ultra DMA mode	**Disabled**	**X**
Secondary IDE Slave	**(Not installed)**	
Type	**Auto**	
32 Bit Transfer Mode	**Off**	**X**
Ultra DMA mode	**Disabled**	**X**
PCI IDE BusMaster	**Disabled**	
S.M.A.R.T. for hard disks	**Disabled**	
Advanced (menu)		
Spread Spectrun	**Disabled**	

CPU Host Frequency	**By Jumper**	
SDRAM Frequency	**Auto**	
Chipset Configuration		
PCI Delay Transaction	**Disabled**	
OnChip VGA Frame Buffer Size	**Auto**	
USB Controller	**Enabled**	
USB Device Legacy Support	**Enabled**	**X**
SDRAM CAS Latency	**Auto**	
Resource Configuration		
PCI Latency Timer	**32**	
Peripheral Configuration		
OnBoard FDC	**Disable**	**X**
OnBoard Serial Port	**3F8/COM1**	**X**
OnBoard Infrared port	**Disabled**	
OnBoard Parallel port	**378**	**X**
Parallel Port Mode	**EPP+ECP**	
EPP Version	**1.9**	
Parallel port IRQ	**7**	
Parallel Port DMA Channel	**3**	
OnBoard Midi Port	**Enabled**	
MIDI Port I/O address	**330h-333h**	
OnBoard Game Port	**Enabled**	
OnBoard IDE	**Both**	
OnBoard LAN	**Disabled**	**X**
OnBoard AC'97 Audio	**Enabled**	
OnBoard MC'97 Modem	**Disabled**	**X**
Security (menu)		
Set Supervisor Password	**[Enter]**	
Set User Password	**[Enter]**	
Password Check	**Setup**	
Power (menu)		
Restore on AC/Power Loss	**Power On**	**X**
Ring-in Power on	**Disabled**	
PCI Device Power On	**Disabled**	
RTC Alarm Power On	**Disabled**	
Boot (menu)		
Quick Boot Mode	**Enabled**	
Boot Up Num-Lock	**On**	
Boot To OS/2	**No**	
Boot to Network	**Disabled**	
Boot Device Priority		
1st	**CD/DVD-0:**	**X**
2nd	**IDE-0: (etc)**	
3rd	**Disabled**	**X**
4th	**Disabled**	
Try other boot devices	**No**	**X**
Exit (menu) (nothing here)		

1.1.2. "M7VIG PRO" Motherboard and "Phoenix – Award BIOS" 'Computer – 2&3 settings

Sometimes it is easier to use the "Load Optimized Defaults", then change the BIOS settings (See X) .

To get into this BIOS, use the "**Delete**" key.
Here are the recommended BIOS settings
The Column X indicates a change from "Load Optimized Defaults"

Table 2, Phoenix BIOS for M7VIG PRO & M7VIQ Motherboard

Phoenix – AwardBIOS	**Value**	**X**
Standard CMOS Features		
Date	**(current date)**	
Time	**(current time)**	
IDE Primary Master	**(your C: hard drive)**	
IDE HDD Auto-Detection	**[press Enter]**	
IDE Primary Master	**[Auto]**	
Access Mode	**[Auto]**	
IDE Primary Slave	**[None]**	
IDE HDD Auto-Detection	**[press Enter]**	
IDE Primary Slave	**[Auto]**	
Access Mode	**[Auto]**	
IDE Secondary Master	**[None]**	
IDE HDD Auto-Detection	**[press Enter]**	
IDE Secondary Master	**[Auto]**	
Access Mode	**[Auto]**	
IDE Secondary Slave	**(your CD Drive)**	
IDE HDD Auto-Detection	**[press Enter]**	
IDE Secondary Slave	**[Auto]**	
Access Mode	**[Auto]**	
Drive A	**[None]**	**X**
Drive B	**[None]**	
Video	**[EGA/VGA]**	
Halt On	**[All, but keyboard]**	
Advanced BIOS Features		
Virus Warning	**[Disabled]**	
Boot Seq/Floppy Setup	**[press enter]**	
First Boot Device	**[CDROM]**	**X**
Second Boot Device	**[HDD-0]**	
Third Boot device	**[Disabled]**	**X**
Boot other device	**[Disabled]**	**X**
Swap Floppy Drive	**[Disabled]**	
Boot Up floppy Seek	**[Disabled]**	**X**
CPU Internal Cache	**[Enabled]**	
External Cache	**[Enabled]**	

	CPU L2 Cache ECC Checking	**[Enabled]**	
	Quick Power On Self Test	**[Enabled]**	
	Boot Up Numlock Status	**[On]**	
	Gate A20 Option	**[Fast]**	
	Typematic Rate setting	**[Disabled]**	
	Security Option	**[Setup]**	
	APIC Mode	**[Enabled]**	
	MPS Version Control For OS	**[1.4]**	
	OS Select For DRAM > 64MB	**[Non-Os2]**	
	Video BIOS Shadow	**[Enabled]**	
	Summary Screen Show	**[Disabled**	
Advanced Chipset Features			
	DRAM Clock/Drive Control	**[Press Enter]**	
	DRAM Clock	**[By SPD]**	
	DRAM Timing	**[By SPD]**	
	AGP & P2P Bridge Control	**[Press Enter]**	
	AGP Aperture Size	**[64MB]**	
	AGP Driving Control	**[Auto]**	
	AGP Fast Write	**[Disabled]**	
	AGP Master 1 WS Write	**[Disabled]**	
	AGP Master 1 WS Read	**[Disabled]**	
	CPU & PCI Bus Control	**[Press Enter]**	
	PCI1 Master 0 WS Write	**[Enabled]**	
	PCI2 Master 0 WS Write	**[Enabled]**	
	PCI1 Post Write	**[Enabled]**	
	PCI2 Post Write	**[Enabled]**	
	PCI Delay Transaction	**[Enabled]**	
	Memory Hole	**[Disabled]**	
	System BIOS Cacheable	**[Disabled]**	
	Video RAM Cacheable	**[Disabled]**	
	VGA Share Memory Size	**[16M]**	**X**
Integrated Peripherals			
	On Chip IDE Control	**[Press Enter]**	
	OnChip Primary PCI IDE	**[Enabled]**	
	OnChip Secondary PCI IDE	**[Enabled]**	
	IDE Prefetch mode	**[Enabled]**	
	Primary Master PIO	**[Auto]**	
	Primary Slave PIO	**[Auto]**	
	Secondary Master PIO	**[Auto]**	
	Secondary Slave PIO	**[Auto]**	
	Primary Master UDMA	**[Disabled]**	**X**
	Primary Slave UDMA	**[Disabled]**	**X**
	Secondary Master UMA	**[Disabled]**	**X**
	Secondary Slave UDMA	**[Disabled]**	**X**
	IDE HDD Block mode	**[Enabled]**	

OnChip PCI Device	**[Press Enter]**	
VIA-3058 AC97 Audio	**[Auto]**	
VIA-3068 MC97 Modem	**[Disabled]**	**X**
VIA-3043 Onchip LAN	**[Disabled]**	**X**
Super IO Device	**[Press Enter]**	
OnBoard FDC Controller	**[Disabled]**	**X**
Onboard Serial Port 1	**[3f8/IRQ4]**	
Onboard Serial Port 2	**[Disabled]**	
Onboard Parallel Port	**[378/IRQ7]**	
Parallel Port Mode	**[EPP]**	
EPP Mode Select	**[EPP1.7]**	
Game Port Address	**[201]**	
Midi Port Address	**[330]**	
Midi Port IRQ	**[10]**	
Init Display First	**[PCI Slot]**	
OnChip USB Controller	**[All Enabled]**	
USB Keyboard Support	**[Disabled]**	
Power Management Setup		
ACPI Function	**[Disabled] don't care**	
SCPI Suspend type	**[S1(POS)]**	
Power Management Option	**[User Define]**	
HDD Power Down	**[Disable]**	
Suspend Mode	**[Disable]**	
Video Off Option	**[Always On]**	**X**
Video Off Method	**[V/H Sync+Blank]**	
Modem Use IRQ	**[3]**	
Soft-off by PWRBTN	**[Instant-off]**	
State after Power Failure	**[ON]**	**X**
Wake Up/Power On Control	**[Press Enter]**	
PowerOn by PCI card	**[Disabled]**	
Wake Up on LAN/Ring	**[Disabled]**	
RTC Alarm Message	**[Disabled]**	
Reload Global Timer Event	**[Press Enter]**	
VGA	**[OFF]**	
LPT & COM	**[LPT/COM]**	
HDD & FDD	**[ON]**	
PCI Master	**[OFF]**	
PnP/PCI Configurations		
PNP OS Installed	**[No]**	
Reset Configuration Data	**[Disabled]**	
Resources Controlled by	**[Auto(ESCD}]**	
PCI/VGA Palette Snoop	**[Disabled]**	
Assign IRQ for VGA	**[Enabled]**	
Assign IRQ for USB	**[Enabled]**	
PC Health Status		

	Show H/W Monitor in POST	**[Enabled]**	
	Chassis Open Warning	**[Disabled]**	
	Shutdown Temperature	**[Disabled]**	
Frequency Control			
	Auto Detect DIMM/PCI Clk	**[Enabled]**	
	Spread Spectrum	**[+/-0.25%]**	
	CPU Host/PCI Clock	**[Default]**	

1.1.3. "M7NCG 400" Motherboard and "Phoenix – Award BIOS" 'Computer-4' settings with a Western Digital Hard Drive

Sometimes it is easier to use the "Load Optimized Defaults", then change the BIOS settings (See column X for changes) .

To get into this BIOS, use the "**Delete**" key.
Here are the recommended BIOS settings
The Column X indicates a change from "Load Optimized Defaults"

Table 3, Phoenix BIOS for M7NCG 400 Motherboard

Phoenix – AwardBIOS	**Value**	**X**
Standard CMOS Features		
Date	**(current date)**	
Time	**(current time)**	
IDE Primary Master	**(your C: hard drive)**	
IDE HDD Auto-Detection	**[press Enter]**	
IDE Primary Master	**[Auto]**	
Access Mode	**[Auto]**	
IDE Primary Slave	**[None]**	
IDE HDD Auto-Detection	**[press Enter]**	
IDE Primary Slave	**[Auto]**	
Access Mode	**[Auto]**	
IDE Secondary Master	**(your CD Drive)**	
IDE HDD Auto-Detection	**[press Enter]**	
IDE Secondary Master	**[Auto]**	
Access Mode	**[Auto]**	
IDE Secondary Slave	**[None]**	
IDE HDD Auto-Detection	**[press Enter]**	
IDE Secondary Slave	**[Auto]**	
Access Mode	**[Auto]**	
Drive A	**[None]**	**X**
Drive B	**[None]**	
Video	**[EGA/VGA]**	
Halt On	**[All, but keyboard]**	

Advanced BIOS Features		
Boot Seq/Floppy Setup	**[press enter]**	
First Boot Device	**[CDROM]**	**X**
Second Boot Device	**[HDD-0]**	**X**
Third Boot device	**[Disabled]**	**X**
Boot other device	**[Disabled]**	**X**
Swap Floppy Drive	**[Disabled]**	
Boot Up floppy Seek	**[Disabled]**	
Cache Setup	**[press enter]**	
External Cache	**[Enabled]**	
Virus Warning	**[Disabled]**	
Quick Power On Self Test	**[Enabled]**	
Boot Up Numlock Status	**[On]**	
Gate A20 Option	**[Fast]**	
Typematic Rate setting	**[Disabled]**	
Security Option	**[Setup]**	
APIC Mode	**[Enabled]**	
MPS Version Control For OS	**[1.4]**	
OS Select For DRAM > 64MB	**[Non-OS2]**	
Video BIOS Shadow	**[Enabled]**	
Advanced Chipset Features		
System Performance	**[Optimal]**	
CPU Ratio	**[Default]**	
FSB Frequency	**[133 Mhz]**	
Memory Frequency	**[by SPD]**	
FSB Spread Spectrum	**[0.50%]**	
AGP Spread Spectrum	**[0.50%]**	
Frame Buffer Size	**[32M]**	
AGP Aperture Size (MB)	**[64M]**	
AGP 8X Support	**[Enabled]**	
AGP Fast Write Capability	**[Enabled]**	
CPU Thermal-Throttling	**[50.0%]**	
System BIOS Cacheable	**[Disabled]**	
Video RAM Cacheable	**[Disabled]**	
Integrated Peripherals		
IDE Function Setup	**[Press Enter]**	
OnChip IDE Channel0	**[Enabled]**	
Primary Master PIO	**[Auto]**	
Primary Slave PIO	**[Auto]**	
Primary Master UDMA	**[Auto]**	
Primary Slave UDMA	**[Auto]**	
OnChip IDE Channel1	**[Enabled]**	
Secondary Master PIO	**[Auto]**	
Secondary Slave PIO	**[Auto]**	
Secondary Master UMA	**[Auto]**	

Secondary Slave UDMA	**[Auto]**	
IDE Prefetch Mode	**[Enabled]**	
IDE HDD Block Mode	**[Enabled]**	
Onboard Device	**[Press Enter]**	
AC97 Audio	**[Auto]**	
MAC Lan(nVIDIA)	**[Disabled]**	**X**
Machine MAC(NV) Address	**[Disabled]**	
Init Display First	**[PCI Slot]**	
OnChip USB	**[V1.1+V2.0]**	
USB Device Legacy Support	**[Enabled]**	
ISD DMA Transfer access	**[Enabled]**	
Onboard I/O chip Setup	**[Press Enter]**	
Onboard FDC Controller	**[Enabled]**	
Onboard Serial Port 1	**[3F8/IRQ4]**	
Onboard Serial Port 2	**[Disabled]**	
Onboard Parallel port	**[378/IRQ7]**	
Parallel port mode	**[SPP]**	
Game port address	**[201]**	
Midi Port Address	**[330]**	
Midi Port IRQ	**[10]**	
Power Management Setup		
ACPI Function	**[Disabled]**	**X**
Power Management Option	**[User Define]**	
Video Off Method	**[V/H Sync+Blank]**	**X**
HDD Power Down	**[Disable]**	
HDD Down In Suspend	**[Disable]**	
Soft-Off by PBTN	**[Instant-Off]**	
WOL (PME#) From Soft -Off	**[Disable]**	
WOL(RI#) From Soft Off	**[Disable]**	
Power-On by Alarm	**[Disable]**	
PWRON After Pwr-Fail	**[ON]**	**X**
PnP/PCI Configurations		
Reset Configuration Data	**[Disabled]**	
Resources Controlled by	**[Auto(ESCD}]**	
PCI/VGA Palette Snoop	**[Disabled]**	
PC Health Status		
Show H/W Monitor in POST	**[Enabled]**	
Chassis Open Warning	**[Disabled]**	
Frequency/Voltage Control		
CPU Voltage Regulator	**[Default]**	
AGP Voltage Regulator	**[1.5 V]**	
DRAM Voltage Regulator	**[2.5 V]**	
IGP Voltage REgulator	**[1.6 V]**	

1.1.4. "M7VIG 400" Motherboard and "Phoenix – AwardBIOS" BIOS settings (Computer 5- requires nicktoons racing software version 1.13)

Sometimes it is easier to use the "Load Optimized Defaults", then change the BIOS settings (See column X for changes) .

To get into this BIOS, use the "**Delete**" key.
Here are the recommended BIOS settings
The Column X indicates a change from "Load Optimized Defaults"

Table 4, Phoenix BIOS for M7VIG 400 Motherboard

Phoenix – AwardBIOS			Value	X
Standard CMOS Features				
	Date		**(current date)**	
	Time		**(current time)**	
	IDE Primary Master		**(your C: hard drive)**	
		IDE HDD Auto-Detection	**[press Enter]**	
		IDE Primary Master	**[Auto]**	
		Access Mode	**[Auto]**	
	IDE Primary Slave		**[None]**	
		IDE HDD Auto-Detection	**[press Enter]**	
		IDE Primary Slave	**[Auto]**	
		Access Mode	**[Auto]**	
	IDE Secondary Master		**(your CD Drive)**	
		IDE HDD Auto-Detection	**[press Enter]**	
		IDE Secondary Master	**[Auto]**	
		Access Mode	**[Auto]**	
	IDE Secondary Slave		**[None]**	
		IDE HDD Auto-Detection	**[press Enter]**	
		IDE Secondary Slave	**[Auto]**	
		Access Mode	**[Auto]**	
	Drive A		**[None]**	**X**
	Drive B		**[None]**	
	Video		**[EGA/VGA]**	
	Halt On		**[All, but keyboard]**	
Advanced BIOS Features				
	Boot Seq/Floppy Setup		**[press enter]**	
		First Boot Device	**[CDROM]**	**X**
		Second Boot Device	**[HDD-0]**	**X**
		Third Boot device	**[Disabled]**	**X**
		Boot other device	**[Disabled]**	**X**
		Swap Floppy Drive	**[Disabled]**	
		Boot Up floppy Seek	**[Disabled]**	**X**
	Cache Setup		**[press enter]**	

		CPU Internal Cache	**[Enabled]**	
		External Cache	**[Enabled]**	
		CPU L2 Cache ECC Checking	**[Enabled]**	
		Video BIOS Shadow	**[Enabled]**	
	Virus Warning		**[Disabled]**	
	Quick Power On Self Test		**[Enabled]**	
	Boot Up Numlock Status		**[On]**	
	Gate A20 Option		**[Fast]**	
	Typematic Rate setting		**[Disabled]**	
	Security Option		**[Setup]**	
	MPS Version Control For OS		**[1.4]**	
	OS Select For DRAM > 64MB		**[Non-OS2]**	
	Summary Screen Show		**[Disabled]**	
Advanced Chipset Features				
	DRAM Clock/Drive Control		**[Press Enter]**	
		DRAM Clock	**[By SPD]**	
		DRAM Timing	**[Auto by SPD]**	
		DRAM Burst Length	**[4]**	
		DRAM Queue Depth	**[4 level]**	
		DRAM Command Rate	**[2T Command]**	
		Write Recovery Time	**[3T]**	
		tWTR	**[2T]**	
	AGP & P2P Bridge Control		**[Press Enter]**	
		AGP Aperture Size	**[128M]**	
		AGP Mode	**[4X]**	
		AGP Driving Control	**[Auto]**	
		AGP Fast Write	**[Disabled]**	
		AGP Master 1 WS Write	**[Disabled]**	
		AGP Master 1 WS Read	**[Disabled]**	
		VGA Share Memory Size	**[32M]**	
	CPU & PCI Bus Control		**[Press Enter]**	
		PCI1 Master 0 WS Write	**[Enabled]**	
		PCI2 Master 0 WS Write	**[Enabled]**	
		PCI1 Post Write	**[Enabled]**	
		PCI2 Post Write	**[Enabled]**	
		Vlink 8X Support	**[Enabled]**	
		PCI Delay Transaction	**[Enabled]**	
	Memory Hole		**[Disabled]**	
	System BIOS Cacheable		**[Disabled]**	
	Video RAM Cacheable		**[Disabled]**	
Integrated Peripherals				
	VIA OnChip IDE Device		**[Press Enter]**	
		IDE DMA transfer access	**[Enabled]**	
		OnChip IDE Channel0	**[Enabled]**	
		OnChip IDE Channel1	**[Enabled]**	

	IDE Prefetch Mode	**[Enabled]**	
	Primary Master PIO	**[Auto]**	
	Primary Slave PIO	**[Auto]**	
	Secondary Master PIO	**[Auto]**	
	Secondary Slave PIO	**[Auto]**	
	Primary Master UDMA	**[Auto]**	
	Primary Slave UDMA	**[Auto]**	
	Secondary Master UMA	**[Auto]**	
	Secondary Slave UDMA	**[Auto]**	
	IDE HDD Block Mode	**[Enabled]**	
VIA OnChip PCI Device		**[Press Enter]**	
	VIA-3058 AC97 Audio	**[Auto]**	
	VIA-3068 MC97 Modem	**[Disabled]**	**X**
	VIA-3043 OnChip LAN	**[Disabled]**	**X**
	OnChip USB Controller	**[All Enabled]**	
	OnChip EHCI Controller	**[Enabled]**	
	USB Keyboard Support	**[Disabled]**	
	USB Mouse Support	**[Disabled]**	
Super I/O Device		**[Press Enter]**	
	Onboard FDC Controller	**[Enabled]**	
	Onboard Serial Port 1	**[3F8/IRQ4]**	
	Onboard Serial Port 2	**[Disabled]**	
	Onboard Parallel port	**[378/IRQ7]**	
	Parallel port mode	**[SPP]**	
Init Display First		**[PCI Slot]**	
Power Management Setup			
ACPI Function		**[Disabled]**	**X**
Power Management Option		**[User Define]**	
HDD Power Down		**[Disabled]**	
Suspend Mode		**[Disabled]**	
Video Off Option		**[Suspend -> off]**	
Video Off Method		**[V/H SYNC+Blank]**	
Modem Use IRQ		**[3]**	
HDD Down In Suspend		**[Disable]**	
Soft-Off by PBTN		**[Instant-Off]**	
PWRON After Pwr-Fail		**[ON]**	**X**
IRQ/Event Activity Detect		**[Press Enter]**	
	VGA	**[Off]**	
	LPT & COM	**[LPT/COM]**	
	HDD & FDD	**[ON]**	
	PCI Master	**[Off]**	
	PowerOn by PCI Card	**[Disabled]**	
	Wake Up On LAN/Ring	**[Disabled]**	
	RTS Alarm Resume	**[Disabled]**	
	IRQs Activity Monitoring	**[Press Enter]**	

			Primary INTR	**[Enabled]**	
			IRQ3 (COM 2)	**[Enabled]**	
			IRQ4 (COM 1)	**[Enabled]**	
			IRQ5 (LPT 2)	**[Enabled]**	
			IRQ6 (Floppy Disk)	**[Enabled]**	
			IRQ7 (LPT 1)	**[Enabled]**	
			IRQ8 (RTC Alarm)	**[Disabled]**	
			IRQ9 (IRQ2 Redir)	**[Disabled]**	
			IRQ10 (Reserved)	**[Disabled]**	
			IRQ11 (Reserved)	**[Disabled]**	
			IRQ12 (PS/2 Mouse)	**[Enabled]**	
			IRQ13 (CoProcessor)	**[Enabled]**	
			IRQ14 (Hard Disk)	**[Enabled]**	
			IRQ15 (Reserved)	**[Disabled]**	
PnP/PCI Configurations					
			PNP OS Installed	**[No]**	
			Reset Configuration Data	**[Disabled]**	
			Resources Controlled by	**[Auto(ESCD)]**	
			PCI/VGA Palette Snoop	**[Disabled]**	
			Assign IRQ For VGA	**[Enabled]**	
			Assign IRQ For USB	**[Enabled]**	
PC Health Status					
			Shutdown Temperature	**[Enabled]**	
			Show H/W Monitor in POST	**[Enabled]**	
			Chassis Open Warning	**[Disabled]**	
Frequency/Voltage Control					
			CPU Clock	**[100]**	